

IN THE SPECIFICATIONS

In the preliminary amendment filed on 21 April 2004, amendments to the specifications were made. Amendments to paragraphs [0007], [0023] and [0028] were inadvertently included in the preliminary amendment. As discussed with the Examiner on 15 August 2006, the amendments to the paragraphs [0007], [0023] and [0028] may not have been entered in the application.

For the record, the following correct paragraphs [0007], [0023] and [0028] should be in the specification

[0007] The commonly used seven conductor wireline is not a serious limitation to two-way communication from the surface to the logging tool. This makes it possible to process data uphole with little or no downhole processing and to send instructions downhole to the logging tool to modify the acquisition schemes based on the surface processing.

[0023] The surface control unit or processor 40 also receives signals from other downhole sensors and devices and signals from sensors S₁-S₃ and other sensors used in the system 10 and processes such signals according to programmed instructions provided to the surface control unit 40. The surface control unit 40 displays desired drilling parameters and other information on a display/monitor 42 utilized by an operator to control the drilling operations. The surface control unit 40 preferably includes a computer or a microprocessor-based processing system, memory for storing programs or models and data, a recorder for recording data, and other peripherals. The control unit 40 is preferably adapted to activate alarms 44 when certain unsafe or undesirable operating conditions occur.

[0028] Those versed in the art would recognize that, depending upon the configuration of the permanent magnet assembly 115, the region of examination could have one of a number of configurations. In one embodiment, the region of examination could be substantially toroidal shaped with the axis of the toroid along the longitudinal axis of the tool. In other configurations, the region of examination could be localized on opposite sides of the borehole or even on just one side of the borehole. It will also be clearly apparent to those skilled in the art that the static magnetic field area can also be obtained if the magnet assembly 115 includes dc-energized electromagnets, or superconducting dc electromagnets. All of these are intended to be within the scope of the present invention.